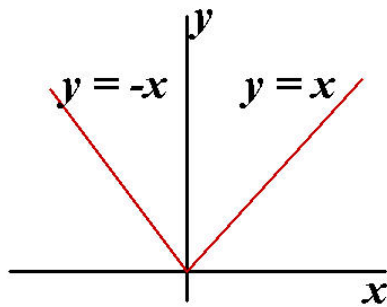


$$\lim_{x \rightarrow 1} \frac{2x^2|x-1|}{x-1}$$

Absolute Value

$$|x| = \begin{cases} x & \text{if } x \geq 0 \\ -x & \text{if } x < 0 \end{cases}$$

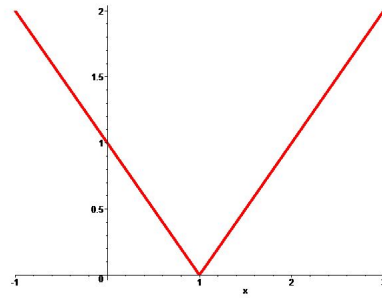


Absolute value of $x - 1$

$$|x - 1| = \begin{cases} x - 1 & \text{if } x - 1 \geq 0 \\ -(x - 1) & \text{if } x - 1 < 0 \end{cases}$$

Absolute value of $x - 1$

$$|x - 1| = \begin{cases} x - 1 & \text{if } x \geq 1 \\ 1 - x & \text{if } x < 1 \end{cases}$$

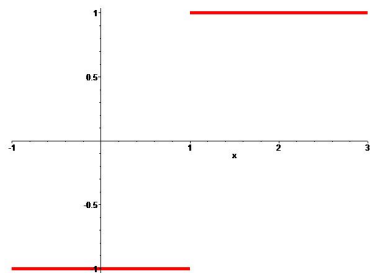


$$|x - 1| = \begin{cases} x - 1 & \text{if } x \geq 1 \\ 1 - x & \text{if } x < 1 \end{cases}$$

$$\frac{|x - 1|}{x - 1} = \begin{cases} \frac{x-1}{x-1} & \text{if } x > 1 \\ \frac{1-x}{x-1} & \text{if } x < 1 \end{cases}$$

$$|x - 1| = \begin{cases} x - 1 & \text{if } x \geq 1 \\ 1 - x & \text{if } x < 1 \end{cases}$$

$$\frac{|x - 1|}{x - 1} = \begin{cases} 1 & \text{if } x > 1 \\ -1 & \text{if } x < 1 \end{cases}$$



$$\frac{|x-1|}{x-1} = \begin{cases} 1 & \text{if } x > 1 \\ -1 & \text{if } x < 1 \end{cases}$$

$$\frac{2x^2|x-1|}{x-1} = \begin{cases} 2x^2 & \text{if } x > 1 \\ -2x^2 & \text{if } x < 1 \end{cases}$$

